

Six Months Aint No Sentence
2016
Jim Leftwich

Book 166

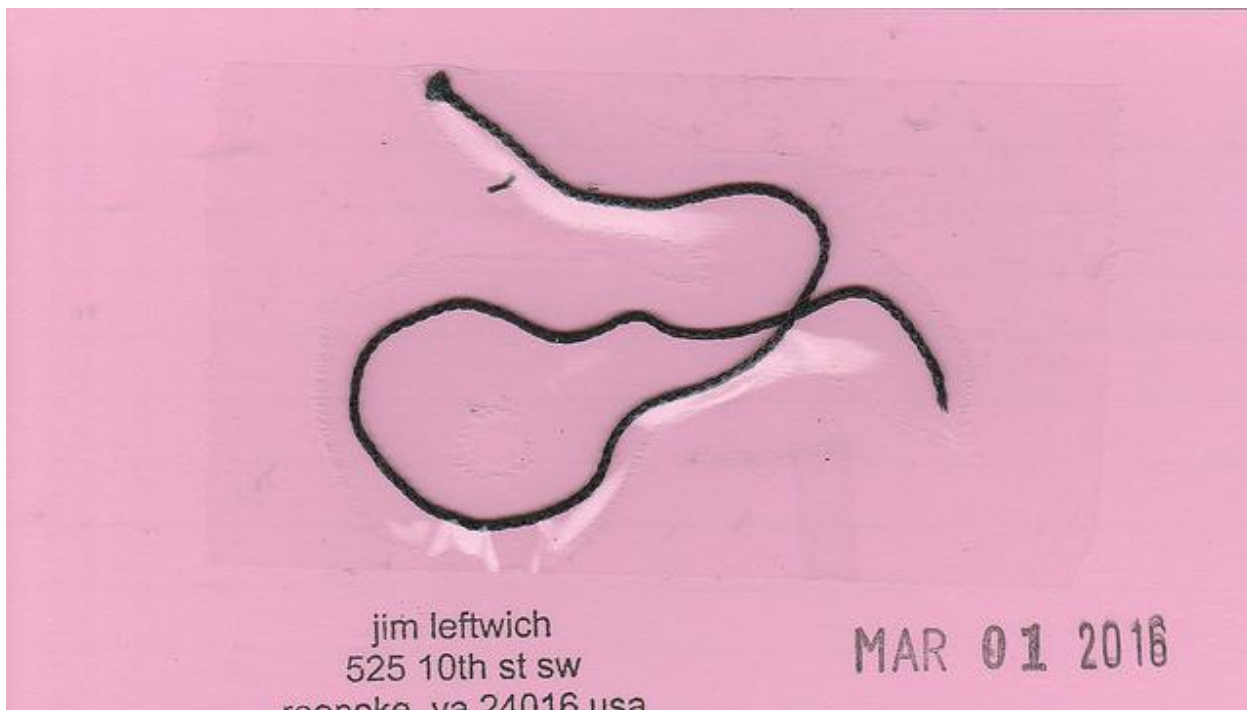
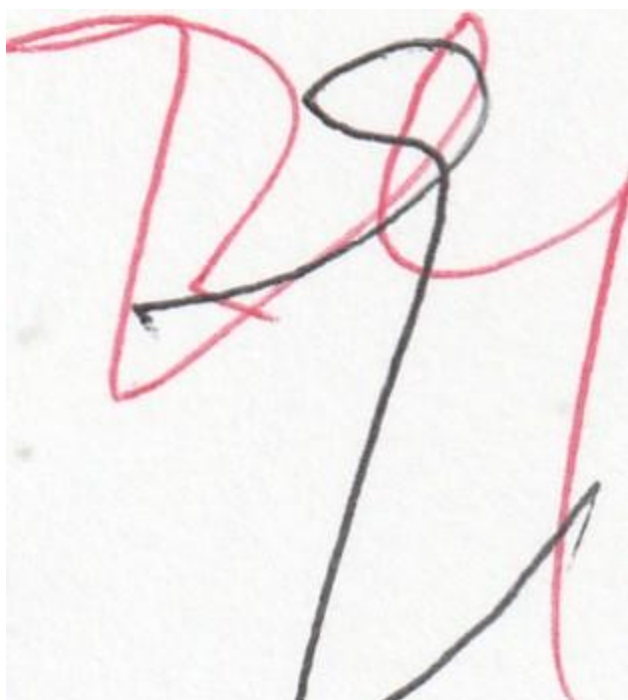
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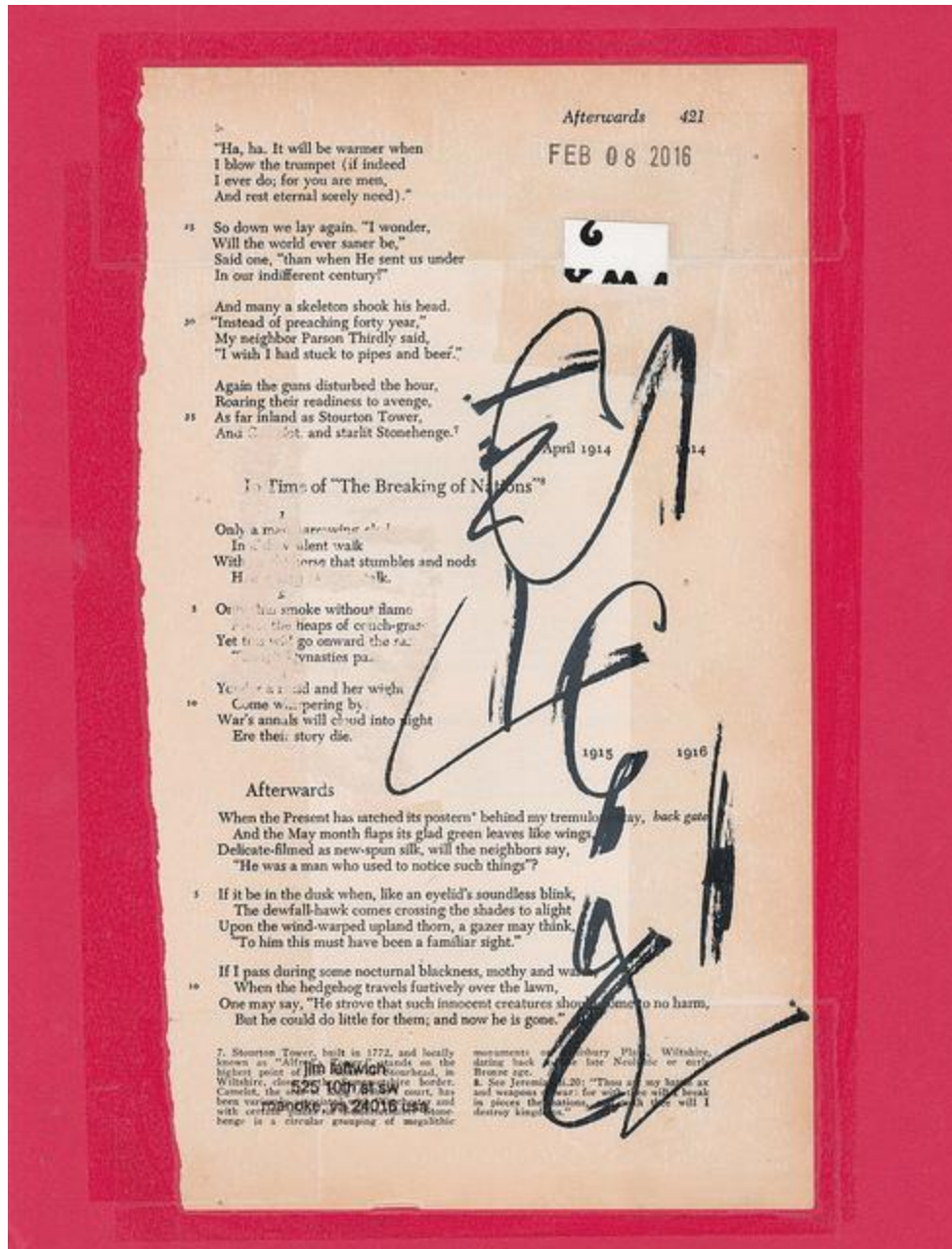




jim leftwich
525 10th st sw
roanoke, va 24016 usa

MAR 01 2016

05.22.2016



The white pink, and the pearly freak'd⁶ with jet,
 The glowing violet,
 The musk-rose, and the well-tinted woodbine,
 With cowslips wand'ring hand the pensive head,
 And every flower that sad embroidery wears:
 Blew amaranthus⁷ his heavy shed,
 And daffadillies⁸ their curls with tears,
 To strew the laurel hearse⁹ where Lycid lies.
 For so to interpose a little ease,
 Let our frail thoughts dally with false surmise.
 Ay me! Whilst here the shores and sounding seas
 Wash far away, where'er the bones are hurled,
 Whether beyond the stormy Hebrides¹⁰
 Where they perhaps under the whelming tide
 Visit the bottom of the narrow world;
 Or whether there some unsifted vows denied,
 Sleep'st in the fable of Bellerus old,¹¹
 Where the great vision of the guarded mount
 Looks toward Namancos and Bayona's hold;
 Look homeward angel now, and melt with ruth,
 Ah, O ye dolphins, waft the hapless youth.
 Weep no more, woeful Cephissus, weep no more,
 Lycidas: your sorrow not to end,
 Sun, or moon, move here, with the water-floor,
 So sinks the day-star in the ocean bill,
 And yet anon repairs his drooping head,
 And tricks¹² his beams, and with new fragrances
 Flames in the forehead of the morning sky:
 So Lycidas sunk now, but mounted high,
 Through the sweet air might be seen that walked the
 Whimsical groves, and other streams along,
 With nectar pure his oozy locks he laves,
 And the unexquisite¹³ nuptial song,
 Like the blest king, he speaks of joy and love.
 There shall he join the saints above,
 In solemn troops and sweet societies,
 That sing, and sing in their glory above,
 And wipe the tears forever from his eyes.
 Now, Lycidas, if shepherds weep no more,
 Henceforth thou art the genius of the shore,
 In thy soft recompense, and salt be good
 To all that wander in that perilous flood.
 Thus sang the uncouth swain to the oaks and
 While the still morn wept out with sandals gray;
 He touched the tenderest of various quills,¹⁴
 With eager thought, and cringing his Dorian lay:
 And now the sun had stretched out all the hills,
 And now was down into the western bay;
 At last he rose, and watched his mantle blue
 Tomorrow's morn, and pastures new.

6. A legendary flower, supposed never to fade.
 7. A legendary flower, supposedly buried at
 next line, the "mount" of the archangel St.
 Land's church, near the town of Namancos
 in the mountains of the northwestern
 Spain.

8. Milton may have been
 "marriage supper of the Lamb."
 9. The "marriage supper of the Lamb" is a
 10. Pindar, the Greek pastoral writers Theocritus
 and Moschus.

&



FEB 08 2016

Jim Leftwich
525 10th st sw
roanoke, va 24016 usa



into troubled hirn
stirred during crumpled
sleep o echo o source
o dwell o that o ir o

irrigation baseball
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a pear

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crocodile automatism
how static are the
sighs of Nature
crows the walking stick

the value of curses
brokered, broken

astral rumbustious incoherence

seemingly suited
to fell them
reflected in serial prose

devised
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a cat

extreme semantic co-authors

setting threaded
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nose metaphorical perfume
neck comb dialogue
eyebrows between spectacular strategies

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05.23.2016

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to immediate

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a root grows lower

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the hyperbole of the crocodile
hairdresser and the walking stick
crocodile the hyperbole of the
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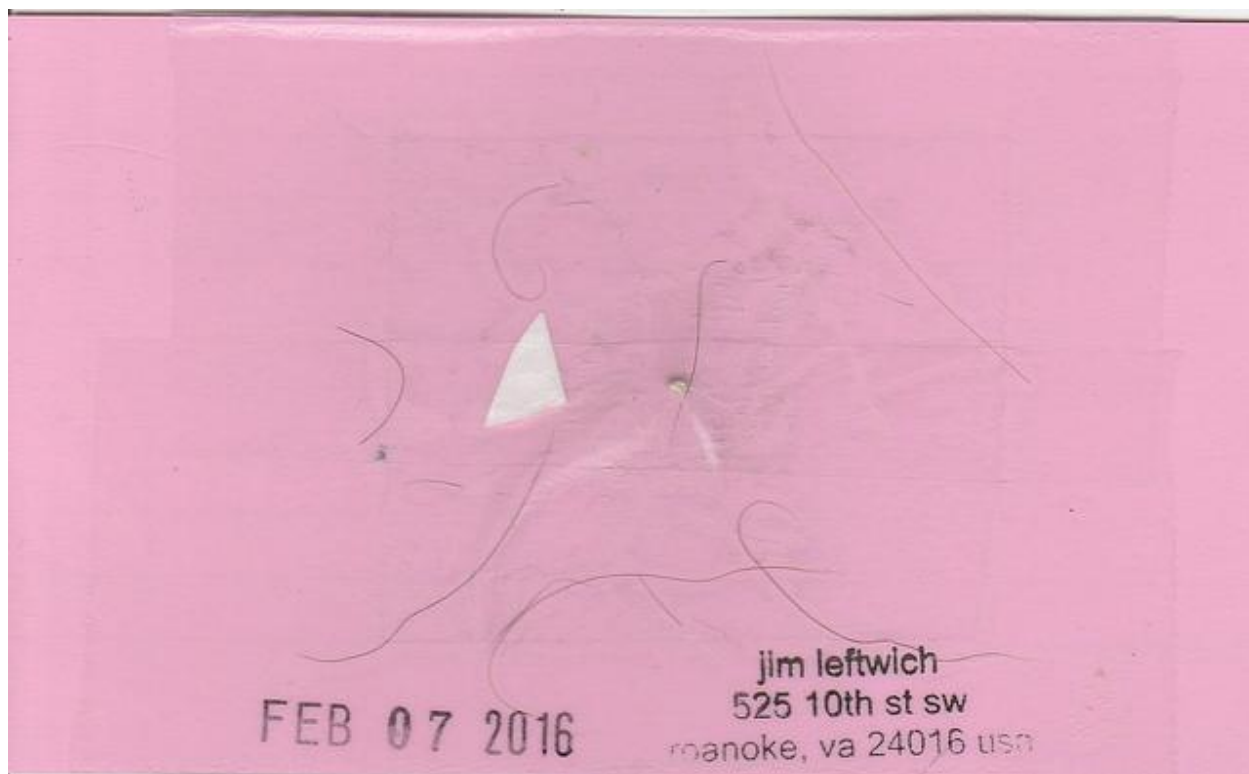






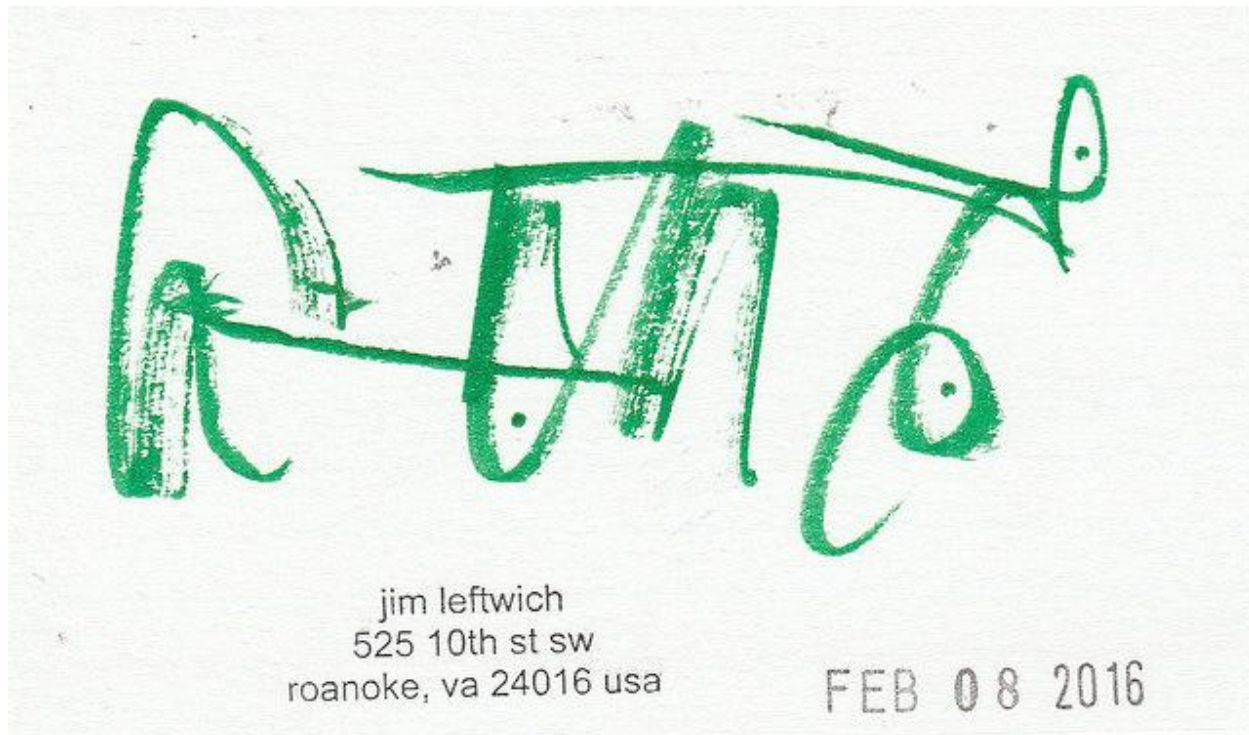
FEB 07 2016

jim leftwich
525 10th st sw
roanoke, va 24016 usa



FEB 07 2016

jim leftwich
525 10th st sw
roanoke, va 24016 usa



jim leftwich
525 10th st sw
roanoke, va 24016 usa

FEB 08 2016



FEB 09 2016
 Jim leftwich
 525 10th st sw
 roanoke, va 24016 usa

talus \tā-las\ n.

EARTH SCIENCE. A slope of rock fragments at the base of a cliff; also, the rock particles in such a slope; also, a

A TALUS is made up of rocks broken away from a cliff by frost action or by other processes.

tangent \tan-jənt\

MATHEMATICS (Adj.). Touching at a point but usually not crossing it; (N.). A function of an angle of the triangle that is the ratio of the ordinate to the abscissa of the point.

tannin \tan-in\

CHEMISTRY. A group of organic compounds that are resistant to wear and tear in the bark of trees. TANNIN is used in the production of some inks and in certain

taproot \tap-rūt\ n.

BOTANY. The main root of a plant from the primary root and that grows vertically. The dandelion remains green during drought because its TAPROOT extends to depth where the soil is moist.

tar \tār\ n.

CHEMISTRY. An oily liquid produced by destructive distillation, or incomplete burning, of wood and tobacco. Creosote, obtained from wood, is used to preserve telephone poles and railroad ties.

tarn \tārn\ n.

EARTH SCIENCE. A small body of water, or cirque, scraped out by a glacier. A TARN is found in the mountains where a glacier formed a basin, or cirque, and later melted.

tarn





supersaturated solution

supersaturated solution \sü-pə-
CHEMISTRY. An unstable solution containing more
given temperature than a saturated solution at the
same temperature.

A supersaturated solution often be changed
saturated solution by shaking or heating the surplus solution
size and settle out.

to e

superscript \sü-pər-

MATHEMATICS. A number or other symbol written to the
right of, and slightly above, a number or letter. A super-
script is commonly used as an exponent.

The superscript 2, in 2^4 , means that 2 is to be used as a factor
four times.



SURFACE TENSION

supersonic speed \sü-pər-

AERONAUTICS. Any speed greater than the speed of sound (Mach
1), which is approximately 767 miles per hour near the surface
of the earth; specifically, speeds between Mach 1 and
Mach 5. Speeds faster than Mach 5 are called hypersonic.

An airplane flying at supersonic speed moves faster than the
sound it produces, causing a shock wave of almost complete silence
inside the airplane.

surface tension \sər-fə-

CHEMISTRY AND PHYSICS. A property of a liquid surface that
apparently forms a thin skin. Surface tension causes all
free liquids to take a spherical shape unless other forces are
present and results from the attractive forces, or cohesion, be-
tween molecules in and near the liquid surface.

If a razor blade is carefully laid on a quiet water surface, it will
be supported by surface tension.



SURVEY

survey \

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biology
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Jim Leftwich
525 10th St SW
Roanoke, VA 24016 USA

tors have been tried wherein mixing is accomplished just prior to injection into the thrust chamber. Since rocket propellants by their nature are high-energy substances, this type of design is subject to explosion. Swirl-type sprays are another approach to injection configuration. Shop practicality, critical tolerances, and cost are major injector head considerations, and some compromises in performance are usually accepted.

Often related to injector head design is the phenomenon of oscillatory combustion, which is in the combustion chamber. This is usually accompanied by audible effects of knocking and screaming. High-speed pressure fluctuations can destroy a rocket motor within a few seconds. To increase the mixture ratio of different propellants used widely, a rocket motor is tailored for specific propellants, and it is not generally possible to operate an engine efficiently on propellants different from those for which it was designed.

Propellant supply systems. The simplest method of forcing liquid propellants into the combustion chamber is by gas pressure. An inert gas is forced into the chamber at a pressure of 300 pounds per square inch (21 kg/cm²) or higher. This pressure is usually higher than the pressure in the chamber, which is usually overcome frictional losses in the tank lines, valves, the thrust chamber cooling jacket, and the injector head. This high pressure necessitates heavy tanks. Gas pressurization is a simple and reliable system, however. For small vehicles, helium gas at several thousand pounds pressure may be used, with operating pressure being reduced through a regulating valve. Another source of pressurizing gas is the reaction of small quantities of the propellant themselves in a special gas generator or even within the propellant tanks. In turbo-pump systems a source of high velocity gas drives a turbine wheel, which in turn drives the propellant pumps between the propellant tanks and the injector head. High velocity hydrogen peroxide (5-10 percent) commonly is employed as a catalyst bed with a gas generator. The decomposition products, oxygen and steam, are fed through a nozzle and impinge on the turbine blades. The main propellant tanks themselves may be used to provide the propellant pressure, simplifying the system.

The propellant pressure is usually maintained by means of large pumps, may be stored in a gas tank, or in cases of large pumps, may be stored in a gas tank. A certain pressure head is necessary to prevent cavitation (the formation of a partial vacuum at the blades). This is supplied from a lightweight high-pressure storage bottle through a pressure-reducing valve into the propellant tanks. Other turbo-pump systems use a high-pressure stored gas storage and then the portion of one of the pumped propellants to an expansion jet to drive the turbine. This turbine gas exhausts and is bled in the combustion chamber, adding to the thermochemical heat content. Valves for rocket motors offer design problems from the nature of the materials and requirements for high reliability and precise operation. Many rocket flights have failed because of sticking valves. Valves are usually electrically, pneumatically, or hydraulically actuated.

Ignition of the propellants upon entry into the combustion chamber must be rapid to prevent a buildup of combustibles. The ignition of some propellant combinations such as hydrazine-hydrogen peroxide is rapid, so that it is ignited and decomposed by the propellant brought together. The reaction in the case of hydrazine-oxygen systems is slow, and the use of a hot pyrotechnic igniter is necessary.

Propellant storage. Tankage for propellants has evolved in recent years into several systems, wherein the thin wall of the tank is a part of the rocket vehicle itself. In addition to the weight of the propellant, rocket tankage must be able to withstand a certain amount of gas pressure for turbo-pump systems and several hundred pounds of pressure for gas-pressurized propellant supply systems.

Liquid propellants. The early rocket pioneers all recognized the advantages of liquid hydrogen and liquid oxygen as rocket propellants. However, such substances were in short supply and expensive. Gasoline and liquid oxygen and commercial gasoline in its history when the first

in 1926. The Germans used liquid oxygen and diluted alcohol in their V-2. Other German missiles used concentrated nitric acid and hydrocarbons such as vinyl isobutyl ether or a mixture of xylidine and triethylamine.

By the early 1970s the most common bipropellants in use in the United States were liquid hydrogen and liquid oxygen in the Space Shuttle (liquid oxygen and RP-1 (Atlas and first stage of Saturn 5); Aerozine 50 and nitrogen tetroxide (Titan II and Apollo Command, Service, and Lunar modules). RP-1 is a hydrocarbon similar to kerosene. Aerozine 50 is a 50-50 mixture of hydrazine and dimethylhydrazine.

Monopropellants in use in auxiliary rocket systems are hydrogen peroxide and hydrazine. Decomposition is forced by forcing the propellant through a catalyst of silver or platinum.

Considerable research and development effort has been expended on liquid propellants of higher energy, such as liquid fluorine and peroxide.

Although experiments have been performed on thousands of fuels and a lesser number of oxidizers, no completely ideal propellants have emerged. Each propellant has some disadvantages that must be weighed against the particular design applications. For example, the problems of corrosion and toxicity of fluorine or the low density of hydrogen may be accepted to obtain their high performance in space applications. Or the lower specific impulse of solid propellants may be accepted to obtain the advantages of simplicity in missile defense systems.

In evaluating liquid propellants the following properties are of increasing importance to the rocket designer: heat of reaction, average molecular weight of combustion products, stability (e.g., to heat, shock), speed of reaction, ignition characteristics, density, viscosity, vapour pressure, specific heat, and storability. For regenerative cooling, and all large jet engines are so cooled—at least one of the propellants must have sufficient stability, specific heat capacity, thermal conductivity, and high saturation temperature to serve as a coolant. Despite its low temperature of -297° F (-183° C), for example, liquid oxygen is an unsatisfactory regenerative coolant. To improve cooling ability in the V-2, the ethyl alcohol fuel was diluted to 75 percent with water.

The logistic and handling qualities of liquid propellants must be taken into consideration. For bulk storage and transfer of propellants, corrosivity, stability, and vapour pressure are important, as are the freezing point and inflammability. Toxicity is important to personnel. Cost per pound of propellant is also an important consideration to program planners.

OTHER PROPULSION SYSTEMS

Nuclear propulsion systems. The development of reliable nuclear fusion reactors has led to consideration of nuclear energy as a source of power for rockets. In this case the energy does not derive from the heat of combustion of a chemical reaction but from fission of nuclear particles. Although the amount of energy potentially available is very much greater, the conversion to kinetic energy in a rocket exhaust is more complicated. Several nuclear rocket systems have been studied, including the rather complicated one shortly after World War II, of obtaining propulsion by a series of small nuclear explosions, an idea that was soon abandoned. The more conventional reaction in a nuclear rocket is to use the heat of a gas generator to heat a working fluid and expel the hot gas through a nozzle. Since the nuclear products are in a closed cycle, no radioactive particles are in the exhaust. The most obvious working fluid is low-molecular-weight hydrogen. The working fluid, or propellant, in this system would not be burned but simply heated and ejected. Some of the major problems associated with the design of a nuclear reactor are related to the design of an efficient heat exchanger to transfer heat energy from the reactor to the propellant, cooling the thrust chamber walls; shutdown and restart; and nuclear radiation. The range of specific impulse (pounds of thrust per pound per second of propellant) achievable with such nuclear rockets is estimated to be in the order of 700-1,000 seconds. Chemical

Common bipropellants

Design problems of nuclear systems

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samples

Jean Arp

from On My Way (1948)

I would meet with Tzara and Serner at the Odéon and in Zurich's Café de la Terrasse to work on a cycle of poems: The Hyperbola of the Crocodile-Hairdresser and the Cane. This kind of verse was subsequently dubbed "Automatic Poetry" by the surrealists. Automatic poetry emerges directly from the poet's guts or any other organ that has stored up reserves. Neither the Postilion of Longjumeau, nor the Alexandrine, nor grammar, nor aesthetics, nor Buddha, nor the Sixth Commandment could interfere. The poet crows, curses, sighs, stutters, yodels at will. His poems are like nature: they stink, laugh, and rhyme like nature. Trivia, or at least what people call trivia, are as precious to him as sublime rhetoric, for in nature a broken twig is as beautiful and as important as a star, and it is men who arrogate for themselves the right to judge what is beautiful or ugly.

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unbelief clouds a lingering near

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emperor flowers
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spider or spit naked in ether
decomposition naked by legendary
enthusiasm naked when beauty

Jean Arp

from On My Way (1948)

Dada aimed to destroy the reasonable deceptions of man and recover the natural and unreasonable order. Dada wanted to replace the logical non-sense of the men of today by the illogically senseless. That is why we pounded with all our might on the big drum of dada and trumpeted the praises of

unreason. Dada gave the Venus de Milo an enema and permitted Laocoon and his sons to relieve themselves after thousands of years of struggle with the good sausage Python. Philosophies have less value for dada than an old abandoned toothbrush, and dada abandons them to the great world leaders. Dada denounced the infernal ruses of the official vocabulary of wisdom. Dada is for the senseless, which does not mean nonsense. Dada is senseless like nature. Dada is for nature and against art. Dada is direct like nature. Dada is for infinite sense and definite means.



WXY
NOPQ
def
de

FEB 07 2016

jim leftwich
525 10th st sw
roanoke, va 24016 usa



FEB 07 2016

jim leftwich
525 10th st sw
roanoke, va 24016 usa

clock

sulfate

sulfadiazine and sulfamides.

Sulfanilamide, the first of the SULFA DRUGS, saved a thousand lives before it was used as a drug.

sulfate \ˈsɒl-faɪt\ n.

CHEMISTRY. Any one of many known compounds containing the SO_4^{--} group, or radical. They are derived from sulfuric acid, H_2SO_4 , by the replacement of one or more hydrogen atoms by one or more atoms or groups of atoms.

If a SULFATE dissolves in water, the resulting solution conducts electricity.

sulfur \ˈsɒl-fər\ n.

CHEMISTRY. A yellow, odorless, nonmetallic element. It may occur free or in metallic compounds. It is chemically active, burns with a blue flame, resists oxidation, and has chemical properties and is used in the manufacture of gunpowder, matches and vulcanized rubber. Atomic number, 16; atomic weight, 32.064.

The characteristic odor of sulfur water is not due to the element of sulfur but to the presence of a compound of sulfur.

useless thinking

Thinking Is Political
March 11, 2014

useless thinking

NAVEL ORANGES

PER LB

49¢

IMPORTANT SULFATES

Na_2SO_4 (sodium sulfate)
 MgSO_4 (magnesium sulfate)
 CaSO_4 (calcium sulfate)
 CuSO_4 (copper sulfate)
 FeSO_4 (iron sulfate)
 ZnSO_4 (zinc sulfate)

SULFATE

SULFUR ATOM



angle

FEB 07 2016

Jim Leftwich
525 10th st sw
Roanoke, VA 24016 USA

an - > b



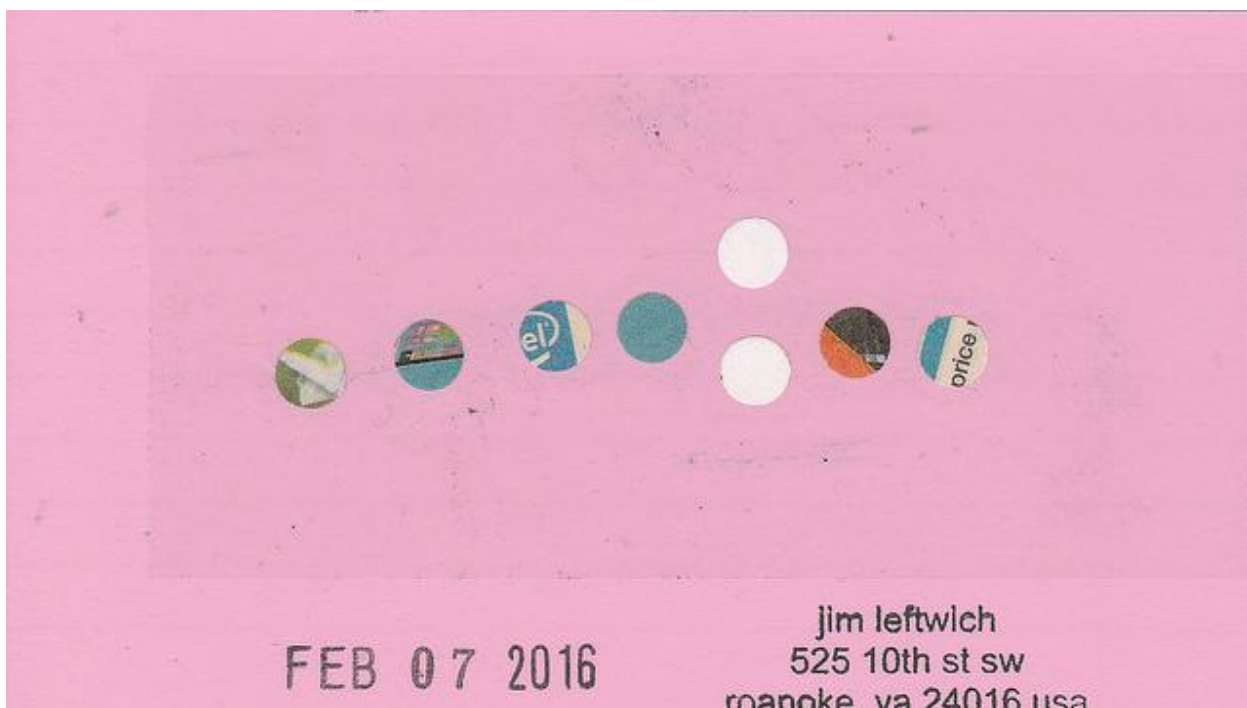
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525 10th st sw
roanoke, va 24016 usa

ALL 133

OVER

jim leftwich
525 10th st sw
roanoke, va 24016 usa

MAR 03 2016







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because someone asked me to include where i work in a short bio...
here is most of what i can remember:

poet 1972 - ongoing
dishwasher Howard Johnsons, Madison Heights, VA 1972
warehouse stocker in a box factory, Madison Heights, VA 1973
student, Guilford College, Greensboro, NC 1974 - 1978 (dropped out)
information desk attendant, Guilford College Greensboro, NC 1974
summer school student, Lynchburg College, 1975
dishwasher/saucier/bus boy The Pepper Mill, Greensboro 1975 - 1976
TA, Being Human In The Twentieth Century, Guilford College, 1975
cook/dishwasher, Guilford College cafeteria, 1975
cook, Shoney's, Greensboro, 1975
DJ, WQFS, Guilford College Greensboro 1976 - 1978
dishwasher, Tijuana Fats, Greensboro, 1976 - 1977
Music Director, WQFS, Guilford College 1977 - 1978
truck driver delivering plumbing supplies, Greensboro 1978
combine operator for Green Giant, Dayton, WA 1978
farm labor at a horse farm in the mountains near Roanoke, Va, 1978
sandwich maker/cashier at a sub shop, Richmond, VA 1978
sandwich maker/cashier at Mr Submarine, San Francisco, 1979
sandwich maker/cashier at a cafe in North Beach, San Francisco, 1979
conveyor belt operator at a Green Giant cannery, Waitsburg, WA 1979
airplane caterer, Greensboro airport 1979 - 1980
prep cook at a Greek restaurant, Greensboro, 1980
pizza maker/cashier/server Verdi's Pizza Haight Street, 1980 - 1982, San Francisco
student at San Francisco State, 1981 - 1982 (dropped out -- twice)
ticket taker at the 4-Star Theater, an arthouse cinema in San Francisco 1982
cook/server/cashier The Sacred Grounds 1983 - 1984
assistant manager, Bogie's Pizza, Cow Hollow San Francisco 1983 - 1984
general manager, Bogie's Pizza, Cow Hollow San Francisco 1984 - 1986
coffee roaster/cashier/server at a coffee shop in Marina del Rey, 1986
cook/cashier/server at a sandwich shop in Berkeley, 1986
assistant manager, Dominoes Pizza, Lynchburg, VA 1986 - 1987
assistant manager, Dominoes Pizza, Charlottesville, Va 1987 - 1991
self-employed, desktop publisher (Juxta), 1992 - 1995, Charlottesville
delivery driver Dino's Pizza Charlottesville, 1992 - 1996
delivery driver Pizza Hut Charlottesville, 1996 - 1997
delivery driver The College Inn Charlottesville, 1997 - 2005

small press editor & publisher (of Juxta, the early email zine Juxta/Electronic, Xtant, xtantbooks, vacuole press, antboo, Vugg Books, the blogzine Textimagepoem, Lick Run, the flickrzine Rawrenok, and TLPress) Charlottesville & Roanoke, 1994 - ongoing
database consultant for Ohio State University's Rare Books & Manuscripts collection 2006 - 2007 (from Roanoke, VA)
sandwich maker, Subway, Roanoke, 2007
cashier Wal-Mart Roanoke, VA 2008 - 2010
sales associate Wal-Mart Roanoke, 2010 - 2014
photo lab technician Wal-Mart Roanoke, 2014 - 2016
organizer and/or advocate and perpetrator of excessive documentation of mail art, fluxus, sound poetry, visual poetry and noise events in Roanoke, 2008 - ongoing
archivist 1994 - ongoing

|||||



Jim Leftwich shared International Times's photo.

May 20 at 3:18am ·

20Reid Wood, Jules Vasylenko and 18 others

Comments

John M. Bennett or to the slough of silence

Unlike · Reply · 1 · May 20 at 7:22am

Jim Leftwich <http://www.muse-apprentice-guild.com/.../jim.../road.html>

JIM LEFTWICH, MUSE APPRENTICE GUILD SPECIAL EDITION,...

MUSE-APPRENTICE-GUILD.COM

Like · Reply · Remove Preview · 2 · May 20 at 10:04am

John M. Bennett hah! - yes, i remember this - i'm certainly familiar with the road of excess.....

Unlike · Reply · 1 · May 20 at 1:07pm

View more replies

Write a reply...

James Cobb Strange and powerful: Once again I'm struck by the depth of my attraction to tiny-quirky euro cars from the 50's and 60's.

Unlike · Reply · 1 · May 20 at 8:16am

Jim Leftwich Blake's aphorisms are not to be believed... this juxtaposition adds new layers to the argument...

Like · Reply · 1 · May 20 at 10:07am

Write a reply...

Luis Bravo That is Blake' s blacky car, right?

Unlike · Reply · 1 · May 20 at 8:28am

Jim Leftwich yes, it is an angel in a tree

Like · Reply · 2 · May 20 at 10:08am

Write a reply...

De Villo Sloan The cut worm forgives the plow?

Unlike · Reply · 3 · May 20 at 10:22am

Jim Leftwich Exactly. The lust of the goat is the bounty of God.

Like · Reply · 1 · May 20 at 10:23am

Write a reply...

Stephen Vincent Nothing like the excessive presence of the typography here. Wisdom? The car suggests much more! i.e. small is beautiful, useful, etc.

Like · Reply · 1 · May 20 at 5:03pm

Jim Leftwich do more with less? <http://www.forbes.com/.../doing-more-with-less-avoid.../...>

Doing More With Less: Avoid Fake Work

FORBES.COM|BY RODGER DEAN DUNCAN

Like · Reply · Remove Preview · 1 · May 20 at 5:16pm

Write a reply...

Unlike · Reply · 1 · May 21 at 7:06pm



4/29, 3:02pm

Bela Grimm

I know I need to read more. But what does any of this have to do with "post-traumatic stress disorder, autism, panic, and attention deficit disorder"? It seems that Berardi is saying that "psychic stimulation" is responsible for genetic conditions. That makes no sense to me ... I can see how that might be relevant in some cases of PTSD or maybe (generalized) panic. I need to read the rest of your two articles Jim Leftwich, but I loved the bit about Bacon in the second article. Francis Bacon, who was a friend of mine at the time I first knew him, was painting these slightly blurry things, the dog shivering and the pope screaming... really it was a very negative kind of vision. But as far as he was concerned, just being able to put that on the canvas made it positive. It is almost as if some collector had said to him, 'Well, tell me what you really believe,' and Francis replied, 'Come back to my studio and I will show you.' Then, in the studio he points at a pictures and says, 'There, that's what I believe'. [38]

4/29, 3:35pm

Jim Leftwich

the basic idea has to do with programming and re-programming. or what Wilson (and many others before him) calls awakening. i am not at all sure that it applies to autism. perhaps Berardi should have left that out. i haven't studied it like you have, but it seems to me too that it is primarily genetic. his other examples do not seem primarily genetic. they seem like damages caused by experiences, repeated experiences of damaging environments. i've read a bit of Berardi, and i introduced Tom to his writings a few years ago, but i've grown tired of his perspective. we need transformative practices, and we need to integrate them into our daily lives. there are lots to choose from. i personally don't care which one anyone chooses, but i think it is essential to choose. you seem to me to already have your practice in place. there is so much that matters, there are so many things that are worth doing, we wouldn't have enough time in a hundred lifetimes. what bores me to death is the notion that there's nothing worth doing, nothing matters. i don't need Berardi, and neither do you. i need a kind of magickal training manual, the kind that makes you fall in love with the world, over and over again. that's what i've needed since i was a teenager. for most of my life i've been able to find it, by setting the poem in motion and following it wherever it leads. that's how i've managed to stay alive for 60 years. is this rambling enough? it's meant to be, thinking several thoughts at once, a nomad inside my own head. we were taught early on that a sentence contains a complete thought. i have no idea what a complete thought is. i think there is no such thing.

4/29, 3:56pm

Bela Grimm

If you don't know this already, Jim, I love you. I don't think your rambling. You're one of the few people that actually makes sense to me. If it matters, I think You are magickal. (Not that that helps, but it's true.) As far as I know, my practice is to keep learning, and asking questions. (Follow what feels right or is more logical, to me) Like you said ... we wouldn't have enough time in a hundred lifetimes. If I find the manual I'll send it your way. Thanks for answering me.

4/29, 4:02pm

Jim Leftwich

it matters, Bela, you know it matters.

[illegible]

XTANT EMAIL CHAPBOOK #1

December 2004

RESISTANCE ACTS

John Crouse & Jim Leftwich

ACT EIGHT HUNDRED TWENTY TWO

blueprints staggers arbiters: "resistance is complex."

asylum dancehall patois: "resistance is manual."

topic sentence vodka: "resistance is cabdriver."

reeling handbags bloomberg: "resistance is encroach."

swat leveraging teetotal: "resistance is lynx."

logos exchanges scrubbing: "resistance is intellect."

turbine scope serviceman: "resistance is fauna."

stricken networks breathes: "resistance is converse."

multimedia ringtones vision: "resistance is shotgun."

flurry cheep breakneck: "resistance is love."

unrealistic per minute: "resistance is soap."

sweetener categorically collar: "resistance is landscape."

ACT EIGHT HUNDRED TWENTY THREE

intergovernmental fluency arrests: "resistance is guideline."

courtship tenor detainment: "resistance is barbarian."

barriers broadly bush: "resistance is fence."

grievance beaten swarms: "resistance is dementia."

colleagues of meetings: "resistance is fresco."

protestors narrower constitution: "resistance is autograph."

economist brief leads: "resistance is fizzles."

piecemeal shivering pools: "resistance is assemblage."

closeted truth cheerleaders: "resistance is enumerate."

wrestlers tennessee parasol: "resistance is macabre."

rogue scrutiny wheelchair: "resistance is codfish."

imprisonment bidding policy: "resistance is bach."

ACT EIGHT HUNDRED TWENTY FOUR

forestalling proletariat text: "resistance is resistor."

are big words: "resistance is projector."

outcomes heaping syntax: "resistance is bedevil."

payment lisps weigh: "resistance is fade."

arbitrary twister contortions: "resistance is landfill."

so staking fragments: "resistance is inversion."

from ordinary speech: "resistance is navigable."

has us thinking: "resistance is tomorrow."

about movements prior: "resistance is isaiah."

to the dances: "resistance is ciliate."

capitalist cults have: "resistance is jumpy."

us all jiggling: "resistance is lift."

ACT EIGHT HUNDRED TWENTY FIVE

talking biology weighs: "resistance is santa."

and reading before: "resistance is emitter."

sugarplum manequin dances: "resistance is felt."

is deeper lungs: "resistance is teaspoon."

and brighter fun: "resistance is chafe."

than polka dot: "resistance is vancouver."

tarp so revered: "resistance is keyhole."

by modern times: "resistance is impressive."

workplace heros wiggling: "resistance is starch."

asses every places: "resistance is social."

to go grinding: "resistance is menu."

cheesy final ends: "resistance is saturday."

ACT EIGHT HUNDRED TWENTY SIX

density is zero: "resistance is nodal."

physics is edges: "resistance is attorney."

collapse is rip: "resistance is workaday."

cosmic is estimates: "resistance is harshen."

matters is implys: "resistance is immaculate."

intervened is candles: "resistance is neophyte."

calibration is diction: "resistance is timetable."

universe is collate: "resistance is eyed."

cosmological is bulk: "resistance is certify."

relativity is spatial: "resistance is infancy."

absurdity is virtual: "resistance is bond."

velocity is value: "resistance is fluster."

ACT EIGHT HUNDRED TWENTY SEVEN

gunpowder to people: "resistance is attune."

oil optimists say: "resistance is goldfish."

sharply rising demented: "resistance is baltimore."

nude oil field: "resistance is seaquake."

likely to roses: "resistance is wrack."

teaches a peach: "resistance is rivet."

wells go dry: "resistance is barley."

retrieval will weep: "resistance is berkeley."

thimble of petrol: "resistance is triune."

seas the sneakers: "resistance is subjective."

exacerbate existing penises: "resistance is fled."

vasoline luminosity beret: "resistance is type."

ACT EIGHT HUNDRED TWENTY EIGHT

the founding myth: "resistance is negotiate."

stands every day: "resistance is squelch."

a notch above: "resistance is umbrage."

combat and death: "resistance is uprising."

fallen in love: "resistance is balm."

spice up history: "resistance is midst."

a rallying cry: "resistance is windowsill."

agent of cohesion: "resistance is adverse."

marked hostility toward: "resistance is advice."

actually took place: "resistance is satyr."

validity or merits: "resistance is orpheus."

squeamish aversion to: "resistance is measure."

ACT EIGHT HUNDRED TWENTY NINE

potent and insidious: "resistance is inventive."

unwanted and sexual: "resistance is seafarer."

dirty and structured: "resistance is quote."

relationship and scholarship: "resistance is zaum."

subsequent and autobiographical: "resistance is bark."

teasing and opening: "resistance is nullify."

sources and traumatized: "resistance is mound."

sessions and quotes: "resistance is sector."

gossip and longings: "resistance is amethyst."

collaboration and voyeurism: "resistance is poetry."

presenting and emphatically: "resistance is spacious."

secretive and confirms: "resistance is concurrent."

ACT EIGHT HUNDRED THIRTY

beneath still stand: "resistance is insomniac."

female process pretend: "resistance is armpit."

instance liberation reich: "resistance is furthest."

narcissistically downplays unspoiled: "resistance is feathery."

evident scale viewpoints: "resistance is ethos."

attract recurring stoned: "resistance is digestive."

rebelliousness diva ambivalent: "resistance is hammock."

erotically wholesome mothers: "resistance is chomsky."

opposed to opposition: "resistance is shifter."

martyrdom population limerick: "resistance is lupine."

transgressions cult wives: "resistance is mezzanine."

misleading bombing queens: "resistance is heritable."

ACT EIGHT HUNDRED THIRTY ONE

gangster consideration outpour: "resistance is cryptic."

reworked failing disproportionate: "resistance is continental."

fordian anthropologist musk: "resistance is whomever."

prototype numbers pretexts: "resistance is theses."

transformation discuss discuss: "resistance is doppler."

redressing similarity recombined: "resistance is stonecrop."

comprehensive proclaims introductory: "resistance is british."

stipulations knowledgeably hypertextual: "resistance is eidetic."

overview emanates transvestites: "resistance is poetics."

elasticity transference borrowed: "resistance is masonite."

indispensable exaggerated adhesion: "resistance is fictive."

fortification contention transitional: "resistance is assemble."

ACT EIGHT HUNDRED THIRTY TWO

brutal genre dependence: "resistance is artwork."

jokes according comrades: "resistance is obsidian."

aims congress nunnery: "resistance is inside."

comical givens observers: "resistance is analytic."

argumentation dupe masterly: "resistance is waylaid."

rhetoric every autumn: "resistance is sprung."

craftsmanship took torpedo: "resistance is gravid."

airplanes birthing chanteuse: "resistance is sonant."

shortly lantern scapegoat: "resistance is workload."

prodding upfront balls: "resistance is noble."

tiananmen elicits dexterous: "resistance is backwater."

peasant stock statecraft: "resistance is ourselves."

ACT EIGHT HUNDRED THIRTY THREE

triangle brooding sarcophagus: "resistance is intersect."

trolled sounding oriented: "resistance is regard."

blended proportions beholders: "resistance is pinball."

absolutism murals notebooks: "resistance is handclasp."

vanishing exact dissection: "resistance is splotch."

frequency composers dungeon: "resistance is globulin."

consummation manifesto frangible: "resistance is analgesic."

harpsichords wisecracks reinterpreting: "resistance is alto."

aesthethician revolution synthesis: "resistance is jonquil."

hymns tenderness horsepower: "resistance is herculean."

plucked function spatters: "resistance is ubiquity."

aural freshens chanted: "resistance is mouth."

ACT EIGHT HUNDRED THIRTY FOUR

to begin with: "resistance is peruse."

little red book: "resistance is algebraic."

able to cut: "resistance is shelter."

to reject both: "resistance is behalf."

further by using: "resistance is nautical."

can go back: "resistance is studio."

be carried out: "resistance is conic."

not a scene: "resistance is absentia."

real life drama: "resistance is fortitude."

needs to choose: "resistance is roadside."

able to move: "resistance is earth."

a happy ending: "resistance is courteous."

ACT EIGHT HUNDRED THIRTY FIVE

justice ferrys harmful: "resistance is uphold."

it is again: "resistance is intrigue."

important thing is: "resistance is keyboard."

venture into town: "resistance is isomorph."

only to endorse: "resistance is psyche."

had business there: "resistance is disjunct."

feel exactly easy: "resistance is senate."

almost comical determination: "resistance is coherent."

choise of getting: "resistance is dilemma."

the boldest putdown: "resistance is dada."

to tell stories: "resistance is adventure."

has ever made: "resistance is soften."

ACT EIGHT HUNDRED THIRTY SIX

line of development: "resistance is germinal."

above all when: "resistance is upheaval."

from physical life: "resistance is bloodshot."

be at odds: "resistance is meantime."

divine will regardless: "resistance is extant."

a singular god: "resistance is pivotal."

hits hard at: "resistance is beautiful."

the line between: "resistance is martian."

appearance of harmony: "resistance is volcano."

generate deviant thoughts: "resistance is potion."

[illegible]

vacuole press publications

Jim Leftwich, EROS CRISTALDI, vacuole press, charlottesville, va, 2003

Jim Leftwich, Berifiturumpo, vacuole press, charlottesville, va, 2003

Jim Leftwich, POPON BEUGS INAMERED, vacuole press, charlottesville, va, 2003

Jim Leftwich, EERIE SWIMSUIT, vacuole press, charlottesville, va, 2004

Jim Leftwich, THE POETRY INDUSTRY, vacuole press, charlottesville, va, 2004

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April 3

4/3, 1:44pm

Jim Leftwich

did that e.g. press book ever get published?

4/3, 1:44pm

Scott MacLeod

I thought it did didnt it?

maybe I didn't do that one? I cant find any mention of it in my OSU archive. what was it called? I do remember at some point you disavowed all those poems. I know there was at least a mock up of that book. Strange.

4/3, 1:49pm

Jim Leftwich

i think we did everything but actually get it published. we went over the proofs together, which should have been the last stage for us, but i think you moved to LA for a while and when i finally got around to going to the bookstore and asking it turned out that you were the only one involved who actually cared about my book getting published. that's how i remember it, but i also remember that those were strange days for me and many of my memories are mixed and muddled.

strange days for both of us

i don't even remember the title i was using. i do remember many of the poems. most of them were "edited" into my woodstove in the late-80s - early-90s, along with hundreds of other poems. there was one line "even if she has a mother, the cellophane is endless" maybe that was the title? i sent you versions of some of those poems in the early 90s - 92 or 93, before i started Juxta. no great matter at this point, that's for sure, but slightly interesting to think about for a minute or two. that e.g. book would have been 1985, but as it turned out my first chapbook(s) weren't published until 1995. probably just as well...

THERE WAS SOME LONG LYRICAL TITLE, JUST LIKE THE POEMS WERE [ooops caps]
long & lyrical. not the cellophane line though. It's not odd that I dont have it but it is odd that I do
not have a record of it anywhere.

i barely have a record of anything from the 80s.

FEB 07 2016



jim leftwich
525 10th st sw
rocks, va 24016 us2

substance

substance \səb-stən(t)s/ *n.*
CHEMISTRY. Matter that has a definite composition; also, an element or compound.
If a substance can be broken down into two or more simpler substances, it is a compound.

substituent \səb-'stich-(ə)-'shən/ *n.*
CHEMISTRY. An atom or group of atoms that replaces another atom or group of atoms in a molecule of a compound.
Chlorine is a substituent in the reaction between methane and chlorine to form chloromethane and hydrogen chloride.

substitution \səb-'stich-(ə)-'shən/ *n.*
CHEMISTRY. The replacement of one atom or group of atoms by another.
See replacement.

substrate \sə-'stræt-əm/ *n.*
PHYSIOLOGY. The substance on which an enzyme acts.
In the digestion of food, the substrate is split by the pepsin enzyme present in the stomach.

substratum \səb-'strāt-əm/ *n.*
EARTH SCIENCE. A layer of earth or rock that lies directly under another layer.
Bedrock is often the substratum for the soil.

In a circle, the central angles and their chords.

subterranean \sə-'ter-re-'ne-ən/ *adj.*
EARTH SCIENCE. Existing or occurring beneath the surface of the earth.
SUBTERRANEAN. A fissure in rock.

subtraction \sə-'trak-shən/ *n.*
MATHEMATICS. The process of finding the difference between two numbers.
The answer to a subtraction problem is correct if the sum of the remainder and the subtrahend equals the minuend.



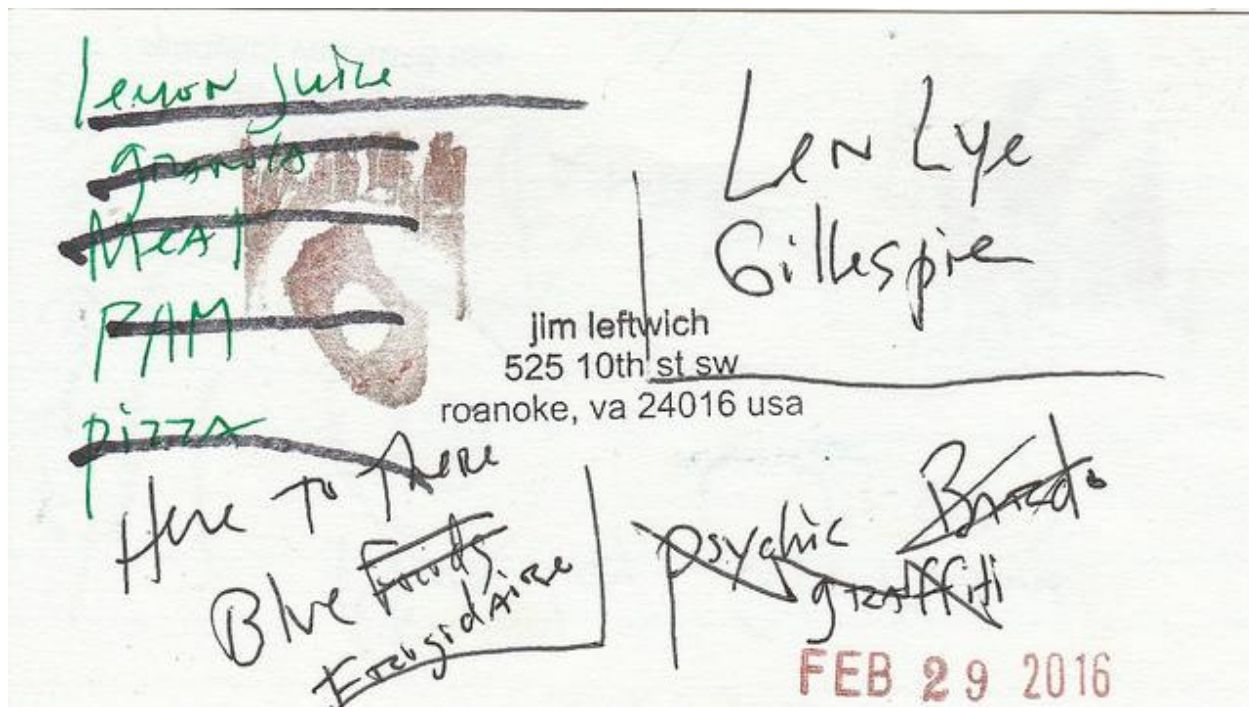
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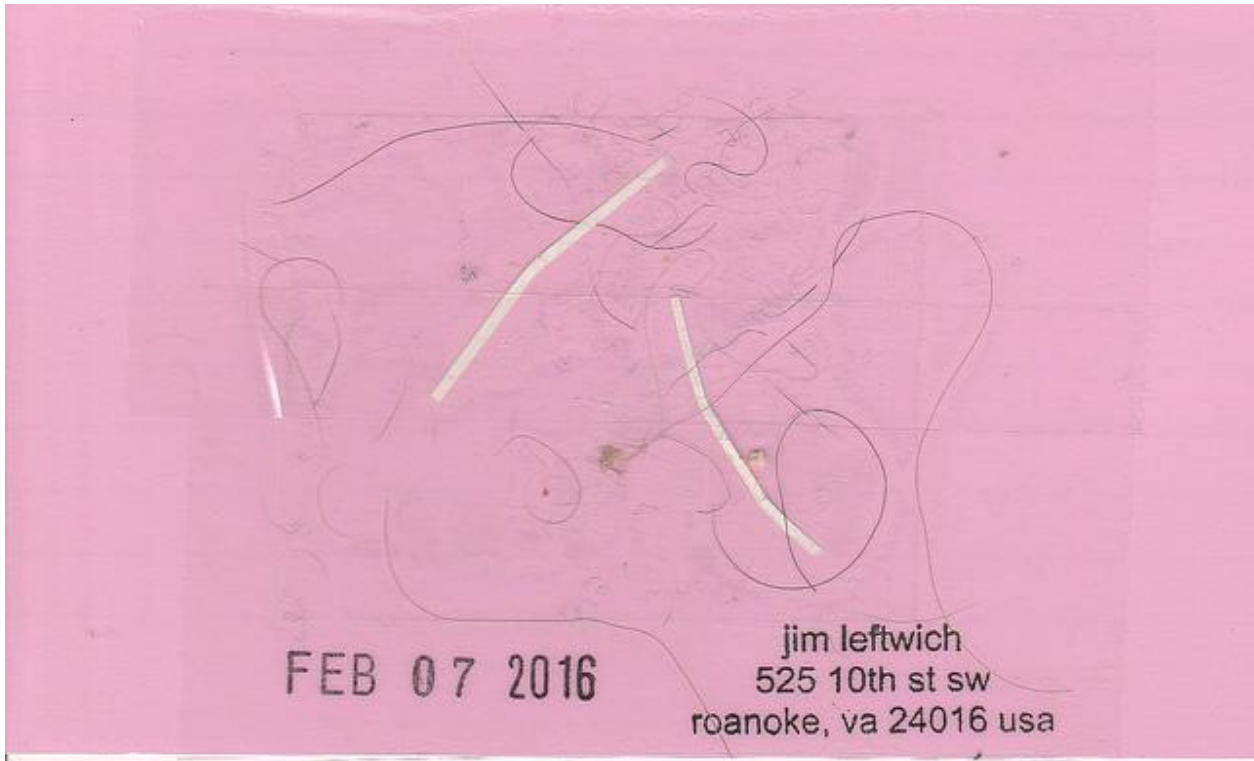
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525 10th st sw
roanoke, va 24016 usa



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jim leftwich
525 10th st sw
roanoke va 24016 usa





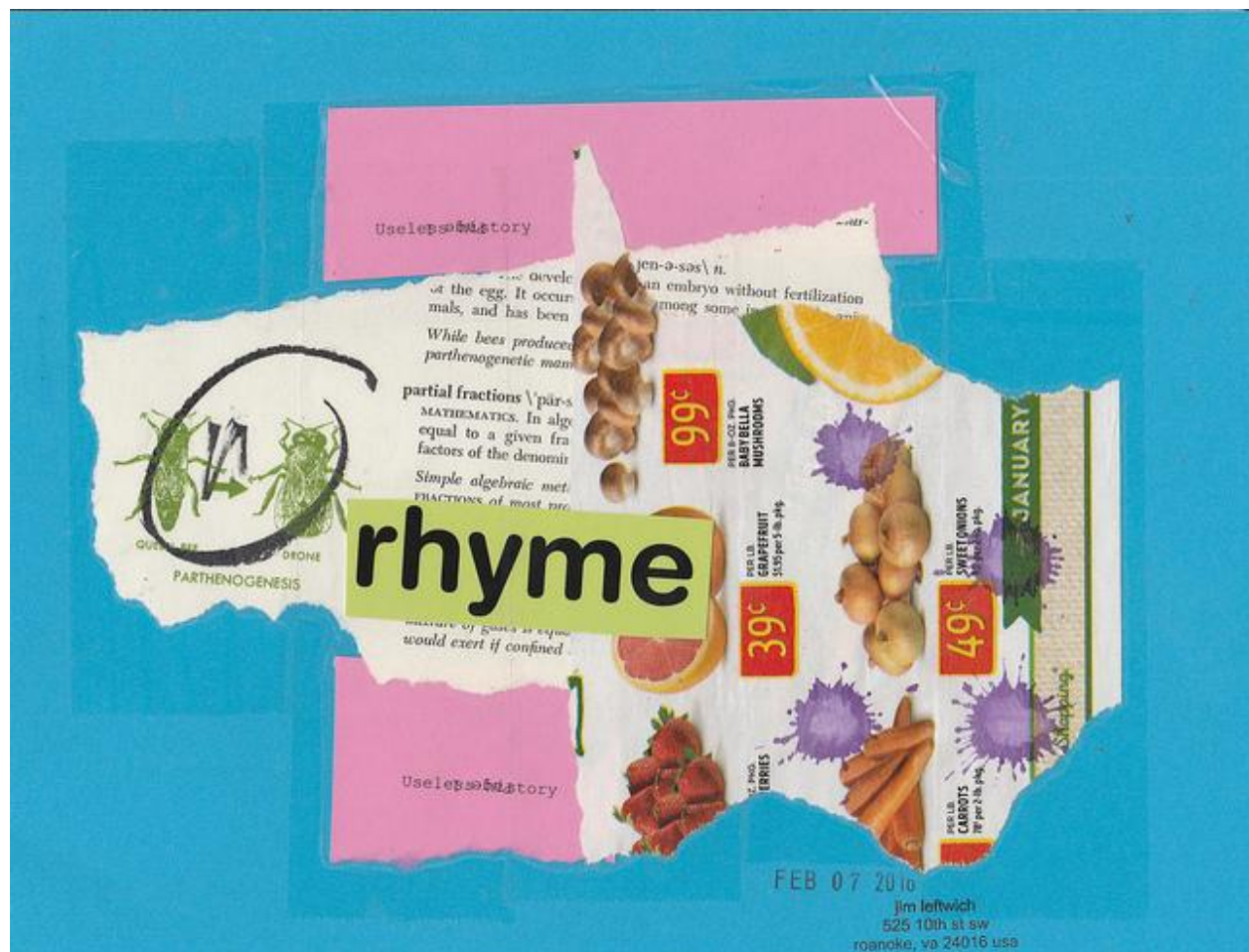
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jim leftwich
525 10th st sw
roanoke, va 24016 usa



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525 10th st sw
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05.25.2016

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such cu=hurch
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swimming
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or tusk mass

slept decadence
dance decade dance
in the decline of
croft baz
Guest Sam
the roses on fire

meat clavier

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negotiating
kaleidoscope

Karl Supper Burma Shave
Meaty Ave
flatware propeller obscurity

magazi flipping techniques innr
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suppork of ma
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stage avocado storage
some butter on the tooth

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in its original clarity

air conditioned
used furniture
warehouses

abrupt attendants precede information

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sentence
aura yam religion

seems no
to bbserve
ooserve
observe
mudflaps of the mind

ENGGPO-BHAR

the gates of Dharma are manifold
i take a vow to enter them all
----combs of gash

the other main secrets are
rhaism
and
imaginary dog-rice

noonal
nortmal

what is noonal?
i enjoy being nortmal.

diseriminati

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hydrogen distribution
volcanic investigated
intermediate hindered

quantitative trap

extinction conditions
abundant

biogeochemistry as oxygen
animal-ocean crises

accompanied the euxinia

anoxic for
significant conditions
atmosphere loss

civilians hydrogen distribution
volcanic protagonists investigated
intermediate hindered horses

quantitative reassembled trap

calvary extinction conditions
abundant battlefields

biogeochemistry as isolated oxygen
animal-ocean crises tangible

accompanied the subjective euxinia

investigates anoxic for
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hydrogen occult distribution
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quantitative trap unfinished

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biogeochemistry compositional as oxygen
animal-indelible ocean crises

accompanied the doppelganger euxinia

anoxic for familiar
significant evolutionary conditions
mutation atmosphere loss

hydrogen control distribution
volcanic investigated systems
intermediate biological hindered

underlying quantitative trap

extinction synchronicity conditions
abundant flying fish

biogeochemistry as outgoing oxygen
animal-gods ocean crises

intention accompanied the euxinia

anoxic bats for
significant conditions continuous
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birds hydrogen distribution
waveforms volcanic investigated
abandoned intermediate hindered

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flayed biogeochemistry as oxygen
sacrificial animal-ocean crises

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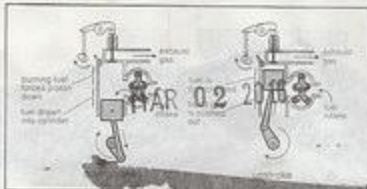


Figure 17: Blower-scavenged, two-stroke cycle engine with uniflow scavenging.

on the compression stroke, thus allowing the persistency of flow more thoroughly to scavenge the cylinder. The compression and exhaust strokes are similar to those of the four-stroke engine.

Crankcase compression

In 1891 a simplified version of the two-stroke cycle engine was introduced, using crankcase compression to pump the fresh charge into the cylinder. Instead of intake ports extending entirely around the lower cylinder wall, this engine has intake ports only half way around; a second set of ports starts a little higher in the cylinder wall in the other half of the cylinder bore. These latter ports lead to the exhaust ports. The ports connect to a transfer passage leading to the fully exposed crankcase. A spring-loaded inlet valve admits air into the crankcase on the upward or compression stroke of the piston. Air trapped in the crankcase is compressed by the descent of the piston on its power stroke. The piston then uncovers the exhaust ports near the top of the cylinder on the power stroke and slightly later it uncovers the inlet or transfer ports on the opposite side of the cylinder to admit the compressed fresh mixture from the crankcase. The top face of the piston is designed to provide a deflector or baffle that directs the fresh load upward on the inlet side of the cylinder and then downward on the exhaust side, thus pushing the spent gases of the previous cycle out through the exhaust port on that side. This outflow continues after the inlet ports are covered by the rising piston on the compression stroke until the exhaust ports are covered by compression of the fresh load begins. This loading process, called loop scavenging, is the simplest known method of transferring exhaust products with a fresh mixture, completing the cycle with only compression and power strokes. The system is used in many small gasoline engines such as outboard motors and for gasoline-powered appliances. One disadvantage is that the return flow of the gas causes a slight loss of fresh charge through the exhaust ports. Because of this loss, carburetor engines operating on the two-stroke cycle lack the fuel economy of four-stroke engines. This loss can be avoided by equipping them with fuel-injection systems (see below) instead of carburetors and injecting the fuel directly into the cylinders after scavenging. Such an arrangement is attractive as a means of attaining high power output from a relatively small engine, and development of the turbocharger (see below Supercharger) for this application may hold promise of further improvement.

Loop scavenging

Opposed-piston engine. The opposed-piston engine also provides uniflow scavenging. This engine (Figure 18A) has two pistons moving in opposite directions in the same cylinder. Two sets of ports extending entirely around the cylinder bore are so located that one set is covered and uncovered by one piston and the other set is controlled by the second piston. A second crankshaft, to which the upper pistons are attached, is located at the top of the engine and the two shafts are connected by gears. The opposed-piston design has two major advantages. Reciprocating masses move in opposite directions, providing excellent balance, and the poppet valves necessary in other uniflow-scavenged two-stroke-cycle engines are eliminated.

Wankel rotary engine. A rotary-piston internal-combustion engine developed in Germany is typically different in structure from conventional reciprocating-piston engines. The engine was conceived by Felix Wankel, a specialist in the design of sealing devices, and experimental engines were built and tested by a German firm beginning

in 1956. Instead of pistons that move up and down in cylinders, the Wankel engine has an equilateral triangular rotating rotor (see Figure 18B). The rotor turns in a rounded chamber and the three apices of the rotor maintain a continuous sliding contact with the curved inner surface of the casing. The rotor and the casing form three compressed chambers separated by the curved surfaces of the rotor. The three chambers are each 120 degrees apart. As the rotor turns, each chamber when the side of the rotor forming it is parallel with the minor diameter of the casing, and the volume is reduced to a minimum when the rotor side is parallel with the major diameter. Shallow pockets recessed in the flank of the rotor control the shape of the combustion chambers and establish the compression ratio of the engine.

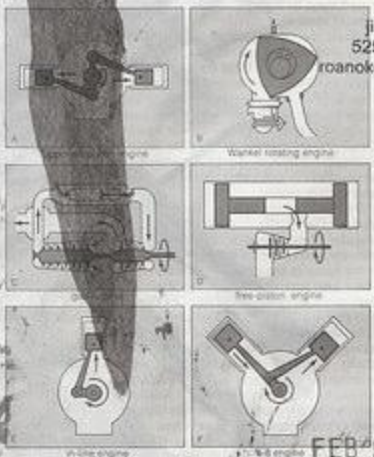


Figure 18: Internal-combustion engines.

In turning about its central axis the rotor must follow a circular orbit about the geometric center of the casing. The necessary orbiting rotation is attained by means of a central bore in the rotor in which an external gear is fitted to mesh with a stationary pinion fixed immovably to the casing. The rotor is guided by fitting its central bore to an eccentric formed on the output shaft that passes through the center of the stationary pinion. This eccentric also happens to be the shaft so that the shaft is applied when the pressure is exerted against the rotor. The fuel and air charges burn. A 3-to-1 gear ratio on the output shaft to turn three times as fast as the rotor turns about the eccentric. Each quarter turn of the rotor completes an expansion or a compression, permitting intake, compression, expansion, and exhaust to be accomplished during one turn of the rotor. The only moving parts are the rotor and the output shaft.

The fuel mixture is supplied by a carburetor and enters the combustion chamber through an intake port in one of the end plates of the casing. An exhaust port is formed in one of the flattened sides of the casing wall and a spark plug is located in the casing communicating with the chamber through a small throat in the opposite side of the casing wall.

The rotor and its gears and bearings are lubricated and cooled by oil circulating through the rotor. The apex valves are lubricated by a small amount of oil added to the fuel in proportions as low as 100:1. Water is circulated through cooling passages in the casing, the entrance to which is located adjacent to the spark plug, where the temperature tends to be highest.

Maintaining pressure-tight joints by suitable seals at the

Jim Ieftwich
525 10th st sw
Roanoke, va 24016 usa

FEB 29 2016

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jim leftwich
525 10th st sw
roanoke, va 24016 usa

2016 Election Schedule

With 4 elections, this year will be a busy one for Democrats.

Important Note: Our Voting Precinct will be moved from the Scottish Rite Building at 622 Cambridge Street to the Calvary Baptist Church at 1015 E. Main Street.

If you know anyone that hasn't registered, please help them register by filling out a registration form.

I hope everyone can make it to the election.

Feltonville Democrat House
Vote at the Civic Center
Elect Canine Mayor & 3 City Council Seats

Marion President Primary
Vote at Calvary Baptist Church

Marion Mayor
Vote at Calvary Baptist Church

Nov. 8 Presidential Election
Vote at Calvary Baptist Church

Jim Leftwich
525 10th St SW
Roanoke, VA 24016 USA

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Jim leftwich
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ALFRED DRAKE
"KISS ME KATE"



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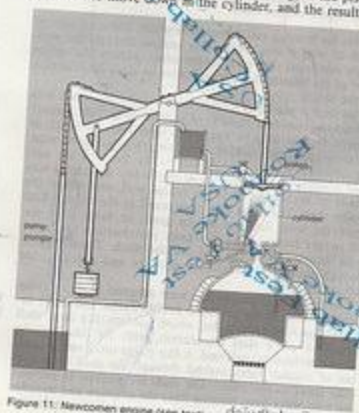


Figure 11: Newcomen engine (see text)

was a simple reaction turbine built by Hero of Alexandria about AD 100.

Though Hero's demonstration of the reactive power of steam had tremendous potential, it was centuries before any attempt was made to give it practical value. In 1784, Baron von Kempelen of Pestburg (modern Bratislava, Czechoslovakia), attempted to develop a reaction turbine similar to the reaction water wheel, which, when correctly concluded, that a wheel capable of moving fast enough to absorb the energy from steam could not be made with then-existing technology.

Meanwhile, an entirely different line of development led to Watt's steam engine. The problem of raising water from mines had long attracted engineering attention. When, in 1698, Thomas Savery, an English military engineer, patented a pump for raising water by the impulsive force of fire, Savery's pump consisted of a boiler, a closed vessel called a receiver, one-way valves in the water inlet and the outlet of the receiver, a steam supply line from boiler to receiver with a shutoff valve, and a waterline with a cock for spraying water on the exterior of the receiver. The supply and water-spray valves. When the shutoff valve was opened to supply steam to the water-filled receiver, steam pressure forced the water out through the one-way-outlet valve. When the water was completely expelled from the receiver, the steam valve was closed. The water cock was then opened and water was sprayed over the surface of the receiver, condensing the steam and creating a vacuum. Atmospheric pressure in the water-filled receiver was not perfect, and thus atmospheric pressure was capable of lifting water only about 20 feet (six metres). The steam of the boiler of that day, by its high pressure, did not come in direct contact of the steam and water within the receiver, but at least had to be the pressure represented by the height to which the water was pumped.

Thomas Newcomen of Dartmouth, Devon, England, and his assistant, John Calley, developed the first piston-operated steam engine in 1712.

The Newcomen engine (Figure 11) consisted of a cylinder fitted with a piston. When the cylinder was filled with steam the counterweighted pump plunger moved the piston to the extreme upper end of the stroke. With the admission of cooling water, the steam condensed, creating a vacuum. The atmospheric pressure acting on the piston caused it to move down in the cylinder, and the resulting

force acting upon the beam lifted the pump plunger. The steam was condensed, at first, by applying the cooling water to the exterior of the cylinder. When this was found to be too slow, the water was sprayed inside the cylinder. A further problem was that air and other incondensable gases accumulated within the cylinder, causing the engine to stop after a few strokes. This difficulty was overcome by allowing some steam to blow out each time the cylinder was filled. The valves for admitting steam and condensing water to the cylinder were first operated by hand. Later they were operated by the motion of the beam so that after start-up the engine became self-actuating.

Savery and Newcomen probably worked independently in the development of their quite different types of engines. Since, however, Savery's patent included a reference to "creation of a vacuum by the condensation of steam," it was necessary for Newcomen to enter into a partnership with him. Before Newcomen's death in 1729, numerous other European countries.

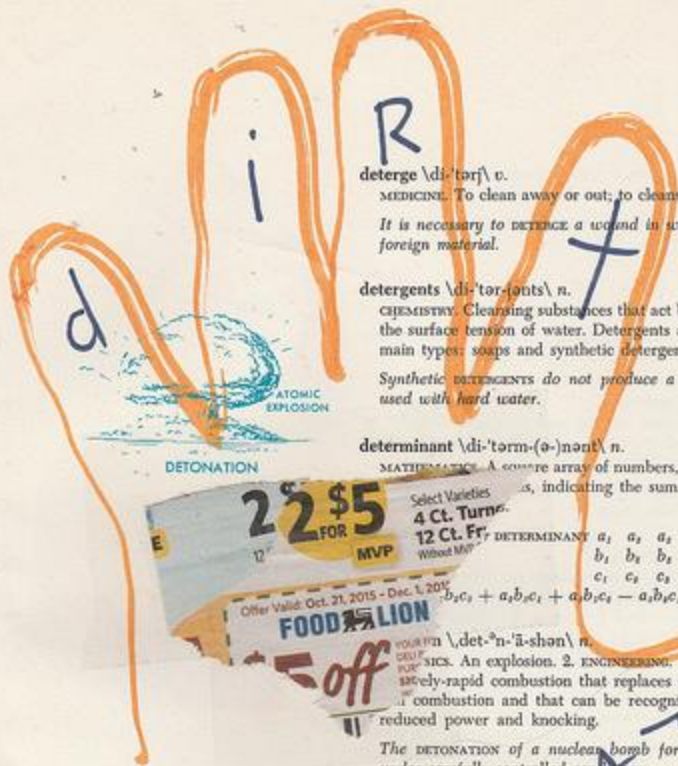
The practical success and usefulness of the Newcomen engines is proven by their long service record. A few Watt were built as early as 1760, and many operations changed, the pumps were modified at new locations and sometimes modified. Some were known to have remained in operation until the early part of the 20th century when they were replaced with electric pumps.

Watt's engine. In 1765 James Watt, an instrument maker in Glasgow, modified a Newcomen engine with a separate condenser to improve its efficiency. He cooled the cylinder with each stroke. Because the cylinder and piston remained at steam temperature while the engine was operating, fuel costs dropped 75 percent. In 1769 Watt obtained a patent for his "new method of lessening the consumption of steam and fuel in fire engines." He entered into a partnership with Matthew Boulton who owned the Soho Manufactory at Birmingham, England. In 1775 the House of Commons granted Watt a patent for 25 years.

Boulton and Watt sold engines for 24016 USA then one-third of the saving in fuel from that required by a Newcomen engine. Watt made extensive tests to establish the comparative steam requirements of his engine with those of the common engine.

At Boulton's insistence, Watt applied his great inventive ingenuity to developing a new kind of engine which rotated a shaft instead of providing simple up-and-down motion. Watt found a way to obtain an effective connection between piston and piston rod (beam), and invented special gear arrangements to convert the up-and-down movement of the beam into circular motion. A heavy flywheel was added to smooth out the variations in the force in the cylinder. An ingenious governor, connected to the flywheel, regulated the flow of steam to the engine. Watt further improved the flow of steam to the engine, and produced greater uniformity of effort and increased power, and invented packing glands which sealed against steam leakage where the piston rod passed through the cylinder head. Though far more difficult to build, Watt's rotative engine created an entirely new field of application. The rotative engine was immediately accepted, and it is estimated that by 1800 the partnership had built 500 engines, of which 38 percent were pumps and 62 percent were of the rotative type.

Owing to the inherent weakness of the boiler, Watt's insistence on safety, steam pressures remained at five pounds per square inch. Though Watt understood the advantages of the use of the expansive powers of steam within a cylinder and the use of compound engines, neither was economically attractive at the low steam pressures Watt employed. In a compound engine, high pressure steam is supplied to one cylinder, the exhaust from it is then admitted to a second, the exhaust from the second to a third, and in some cases from the third to a fourth. Each cylinder is larger than the preceding one because of the increase in steam volume as the pressure is reduced. Watt also invented a device which graphically indicated



MAR 03 2016

Jim leftwich
525 10th st sw
roanoke, va 24016 usa

deuterium

deterger \di-'tôrj\ v.

MEDICINE To clean away or out; to cleanse.

It is necessary to DETERGE a wound in which there is dirt or foreign material.

detergents \di-'tôr-jents\ n.

CHEMISTRY. Cleansing substances that act by emulsion to lower the surface tension of water. Detergents are divided into two main types: soaps and synthetic detergents.

Synthetic DETERGENTS do not produce a surface scum when used with hard water.

determinant \di-'torm-(a-)nənt\ n.

MATHEMATICS. A square array of numbers, or elements, aligned as, indicating the sum of specific products

Select Varieties
4 Ct. Turn
12 Ct. Fr
Wood MVP

DETERMINANT $\begin{vmatrix} a_1 & a_2 & a_3 \\ b_1 & b_2 & b_3 \\ c_1 & c_2 & c_3 \end{vmatrix}$
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detonation \det-'ə-n-ā-shən\ n.

PHYSICS. An explosion. 2. ENGINEERING. In an engine, an extremely-rapid combustion that replaces or accompanies normal combustion and that can be recognized by overheating, reduced power and knocking.

The DETONATION of a nuclear bomb for testing must occur under carefully-controlled conditions.

detonator \det-'ə-n-ā-tər\ n.

PHYSICS. A easily-exploded charge, or device containing it, used to set off a high explosive.

Fulminate of mercury is often used in a blasting cap as a DETONATOR for dynamite.

detritus \di-'trīt-əs\ n.

EARTH SCIENCES. Any loose material that results from the weathering or disintegration of rock; also, a deposit of rock fragments.

Examples of DETRITUS are such materials as gravel, sand, silt and clay.

deuterium \d(y)ü-'tir-ē-əm\ n.

CHEMISTRY and PHYSICS. An isotope of hydrogen, differing from the ordinary hydrogen atom in that its nucleus contains a

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jim leftwich
525 10th st sw
roanoke, va 24016 usa

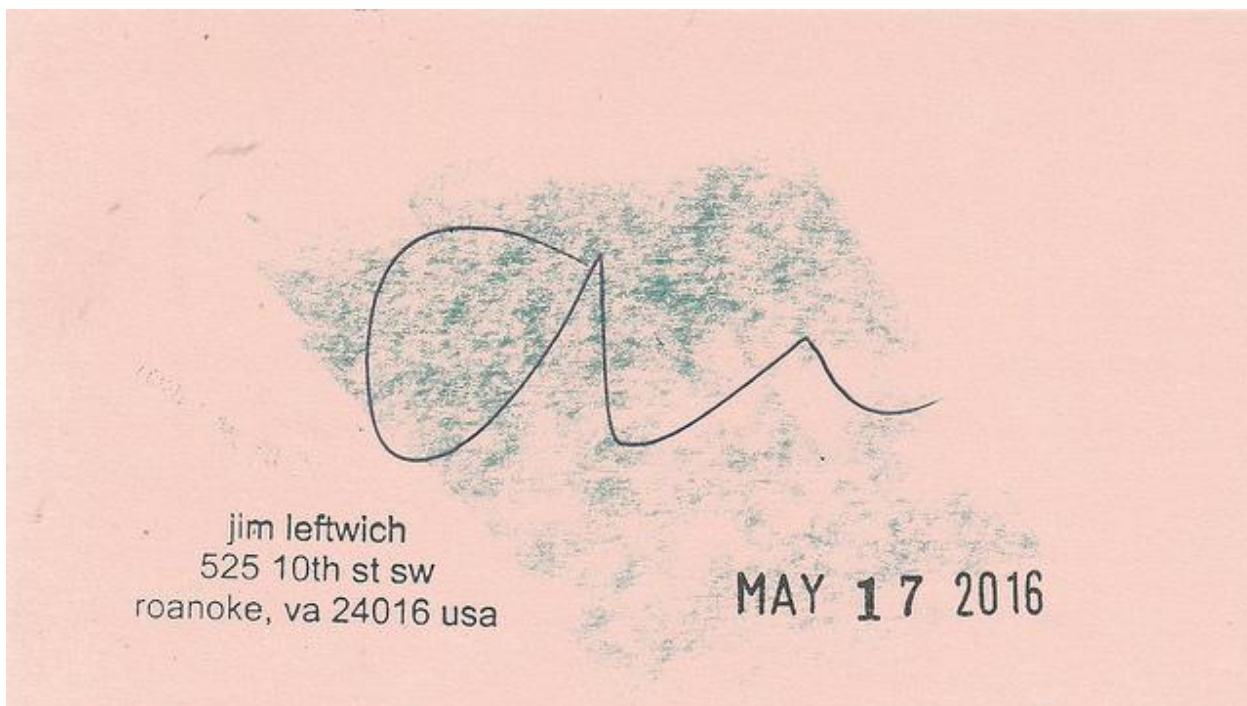
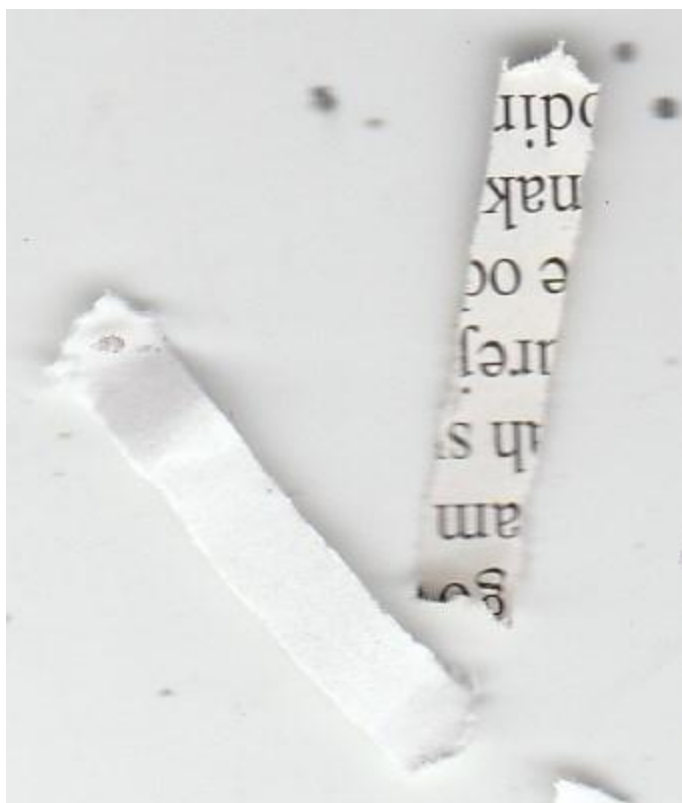
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jim leftwich
525 10th st sw
roanoke, va 24016 usa





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525 10th st sw
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Rose-cheeked Laura

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There is a Garden where
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Where roses and white lilies
A heavenly paradise
Wherein all pleasures
There cherries grow, which
Till "Cheer" the heartiest dance will

These dull notes we sing
Discords need for balme to grace it
Only beauty purely loving
Knows no discord.
But still moves delight,
Like cool springs renewed by frost
Ever perfect, ever in them
Selves eternal.

Now Winter Nights En

Of orient passion
Which when her
They look like roses
Yet them now pass
Till "Cherry ripe!"

Her eyes like angels
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Now winter nights enlarge
The number of the
And cloos their storm
Upon the airy tow
Let now the chimneys
And cups overflow with wine
Let well-timed words be
With harmony, vivin
Now new waxen lights
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jim lewrich
4. 525 10th st sw
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Jim Hittwisch
525 10th st NW
roanoke, VA 24016 USA

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jim leftwich **PARK**
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roanoke, va 24016 usa

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525 10th st sw
roanoke, va 24016 usa

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IMPORTANT NOTICE-EXCLUSION OF LIABILITY

This ticket is a license only to use one vehicle parking space. Acceptance of this ticket constitutes an agreement that the owners and operators of this lot shall not be responsible for loss or damage to the vehicle, its accessories or contents resulting from theft, vandalism, fire or any other cause. No employee of the owner or operator can change this agreement. If the holder does not agree to these conditions, they may immediately exit this lot at no charge.

used in Fig. 7-14 is a crimping tool. An application of solderless connections is shown in Fig. 15.

7-7. TINNING WITH A SOLDER POT

Prior to soldering, a wire must be *tinned*. To tin a wire is to apply a fine film of solder alloy on its surface. (More information on tinning is given in Chap. 8.) One method used in tinning employs a *solder pot* and falls within the category of wire preparation. For this reason tinning with a solder pot is introduced here.

A solder pot is a metal container heated electrically to melt a solder alloy. Such a solder pot is shown in Fig. 7-15. Also shown is a bar of solder alloy before melting. The soldering flux shown in Fig. 7-15 is a liquid resin, used as a cleaning agent to prepare a wire for tinning.

A wire to be tinned is first stripped of its insulation. It is then immersed in the liquid resin and finally in the molten solder. The process of tinning a wire with a solder pot is

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jim leftwich
525 10th st sw
roanoke, va 24016 usa